

Figure 1 (Prior Art)

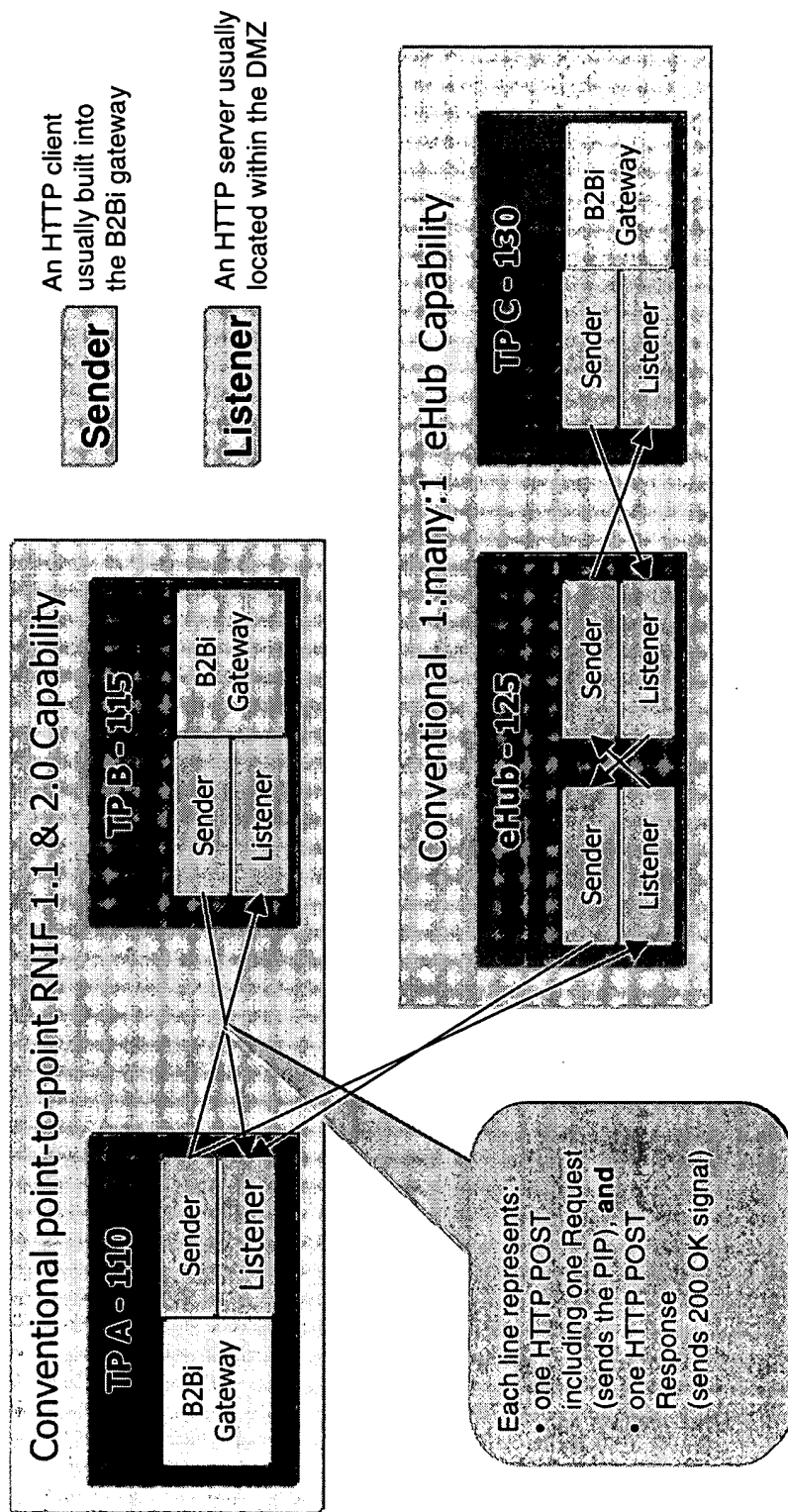
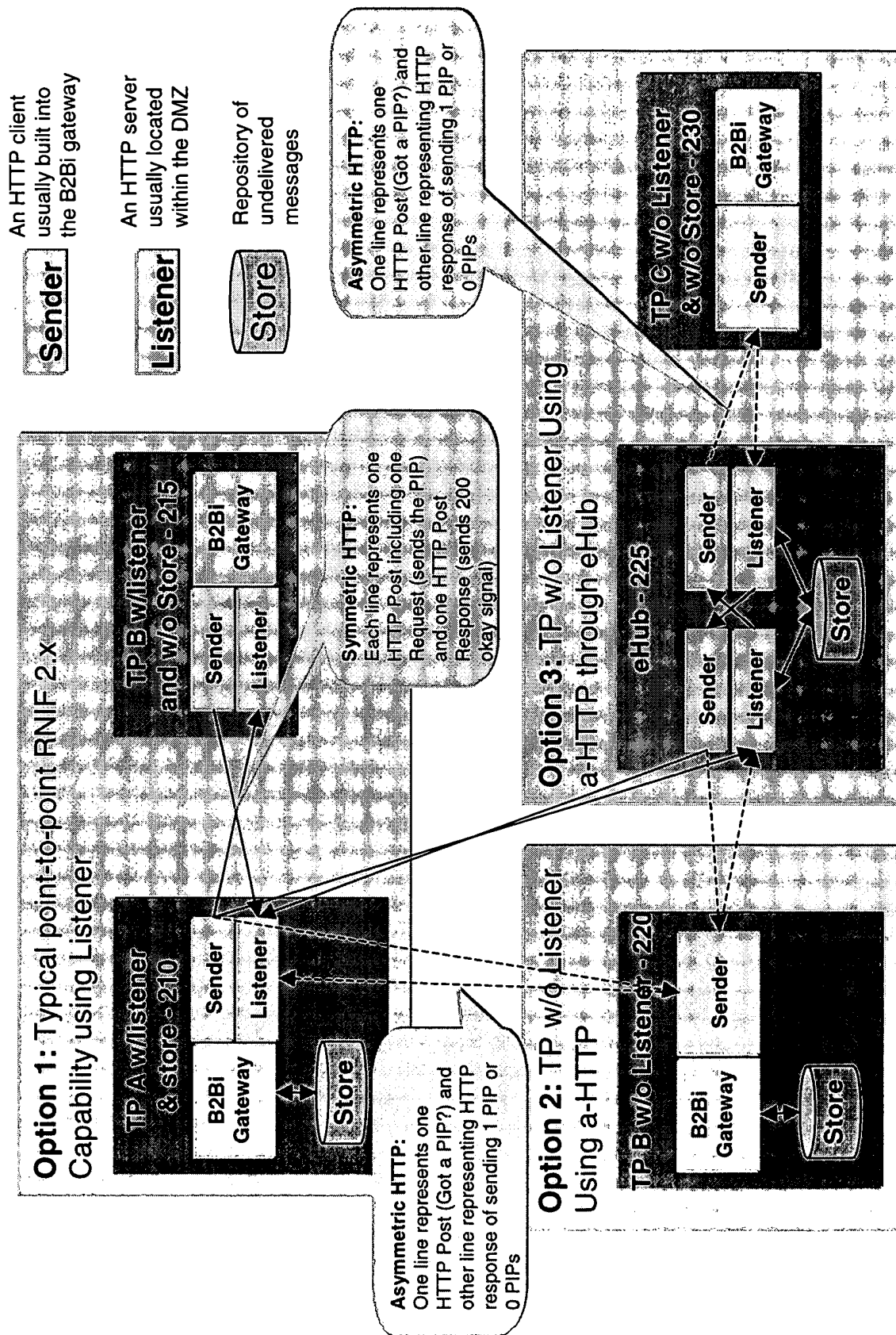
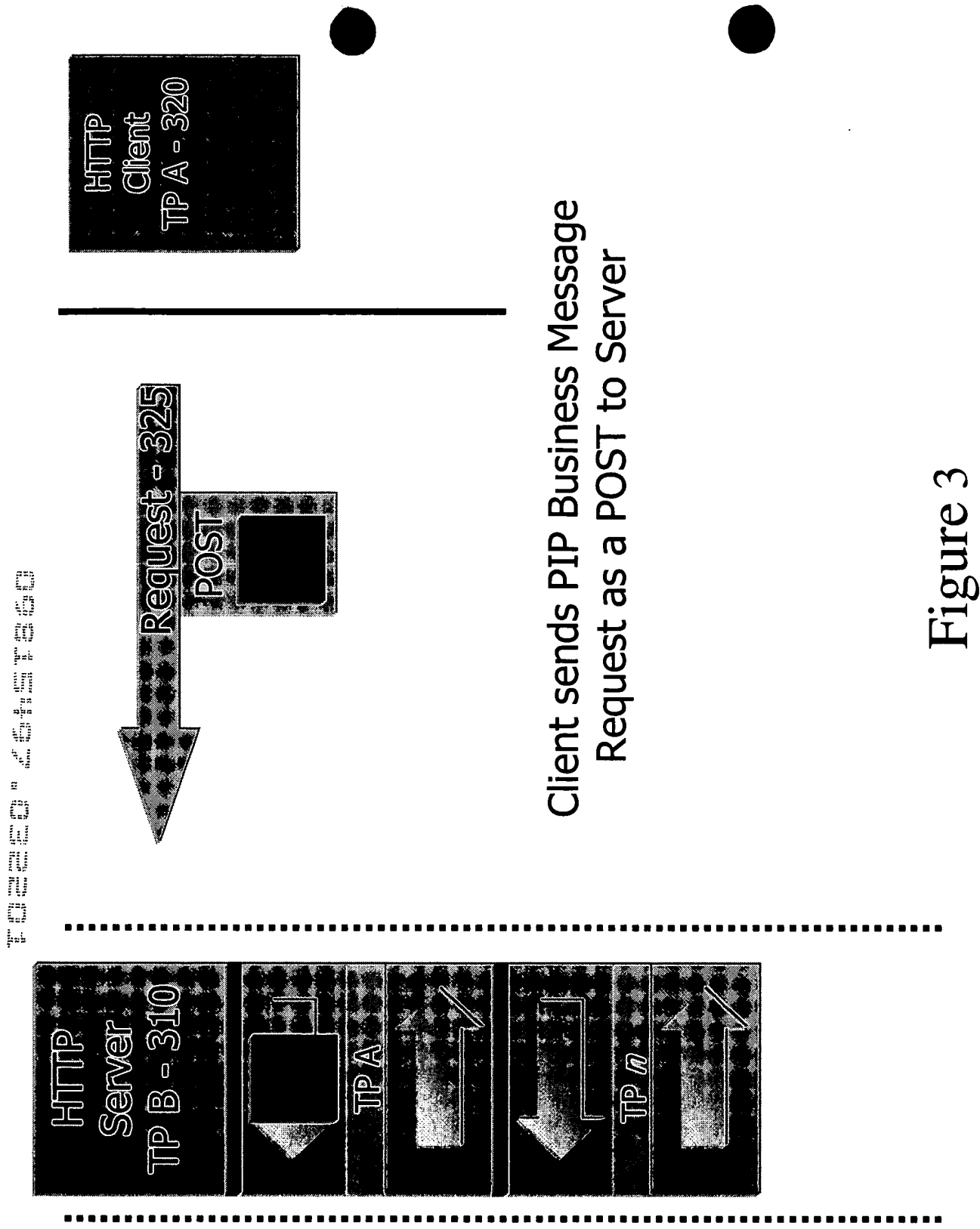
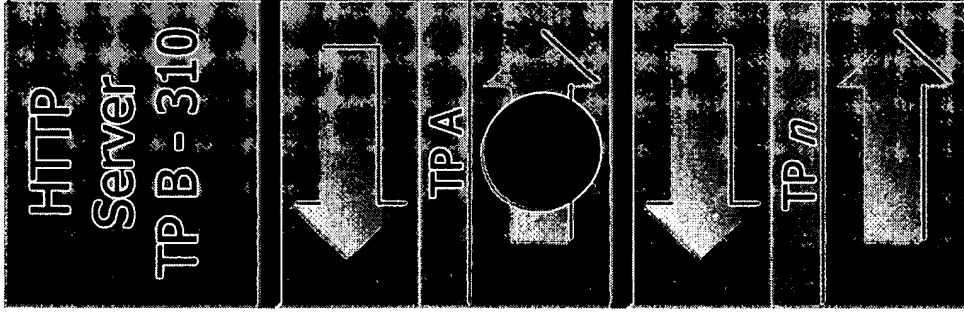


Figure 2





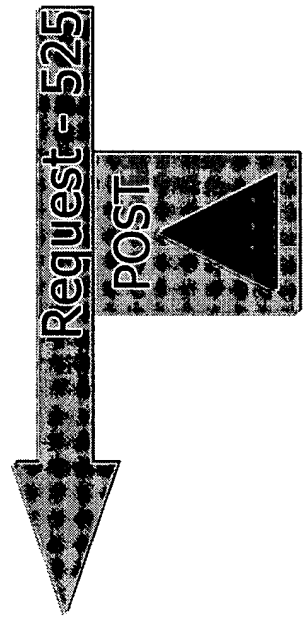
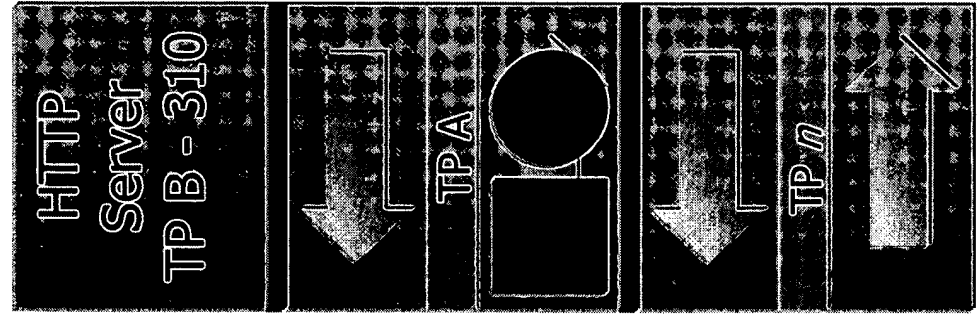


200 OK is sent from the Server in response to Client POST indicating that the file has been received successfully

Server has asynchronously processed the data and has queued a Receipt Acknowledgement

Figure 4

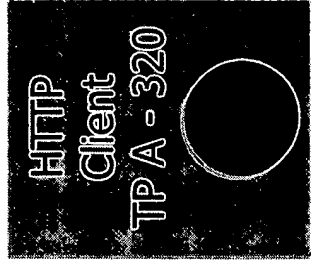
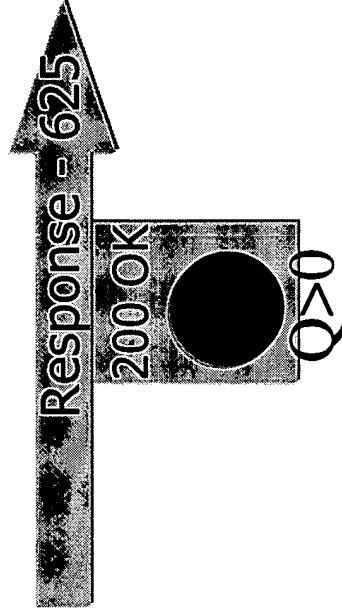
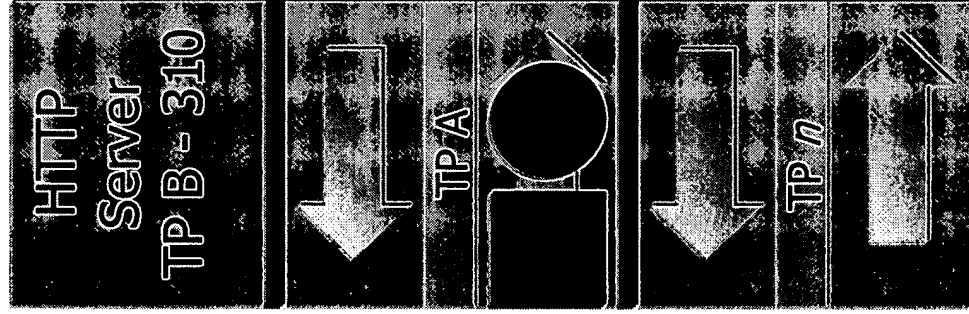
Figure 5: HTTP Client and Server interaction



With configurable frequency the Client makes a request (polling) to the Server using a POST. Trading-Partner-B has queued a business message 530 for Trading-Partner-A

Figure 5

TP A - 320

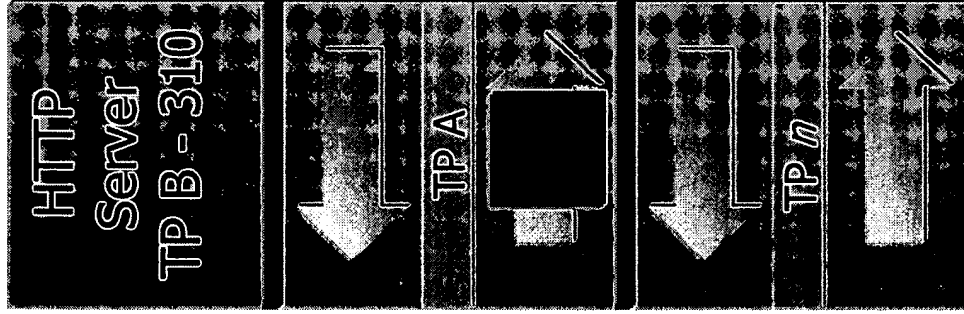


The Server sends the Receipt Acknowledgement within the HTTP response

Additionally, the Server sends some information that tells the Client that the server queue is not empty

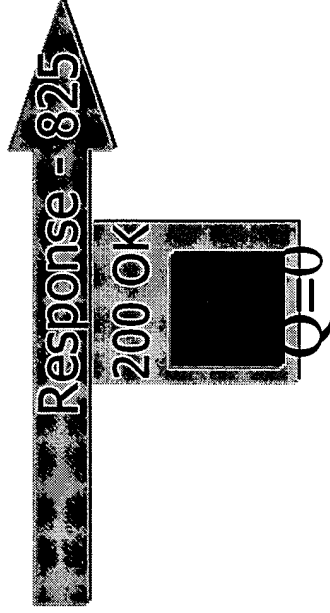
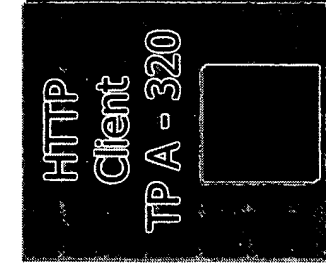
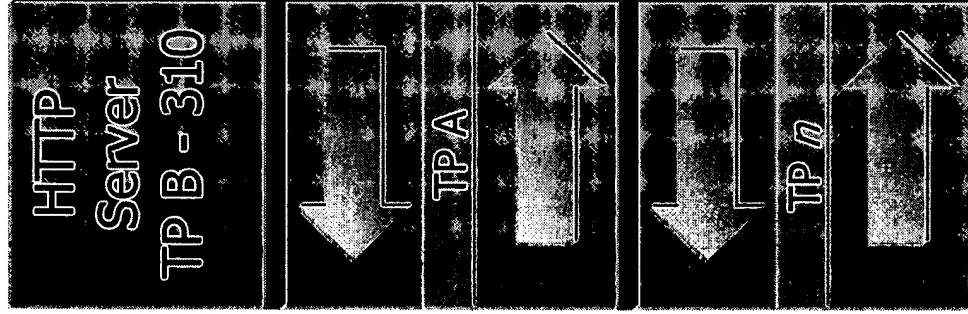
Figure 6

TP A - 320



The Client 320, knowing that the server queue is not empty, polls the server again with a POST to retrieve the next item in the server queue

Figure 7



The business message is sent in the response to the Client

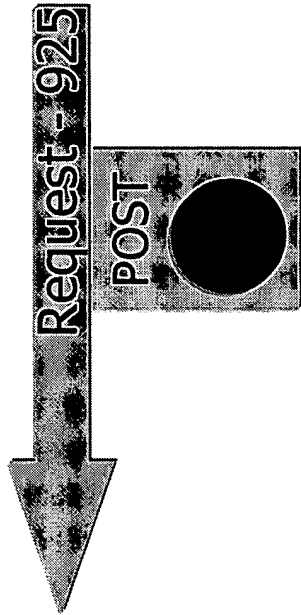
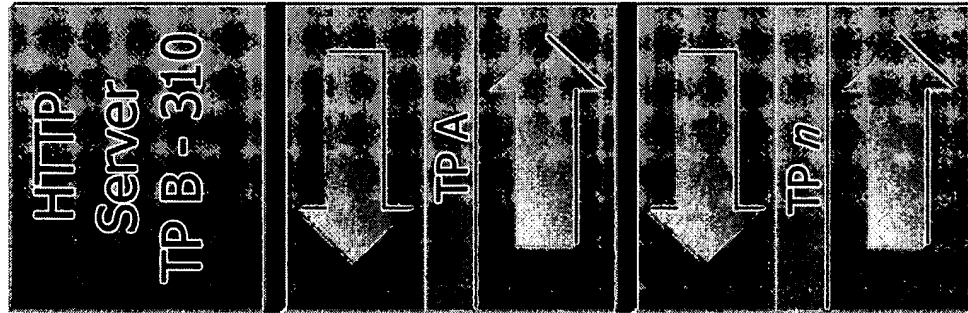
PIP is initiated (timers begin) when business message is delivered

The Server also tells the Client that the queue is empty

The Client sleeps until it needs to send something or it is time to poll again

Figure 8

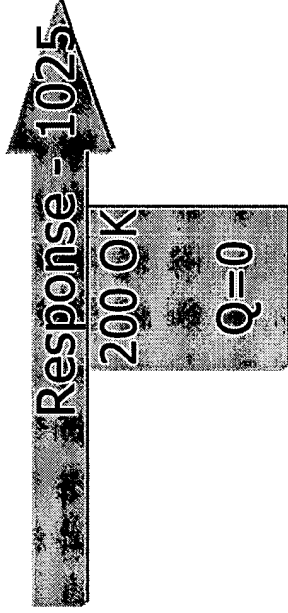
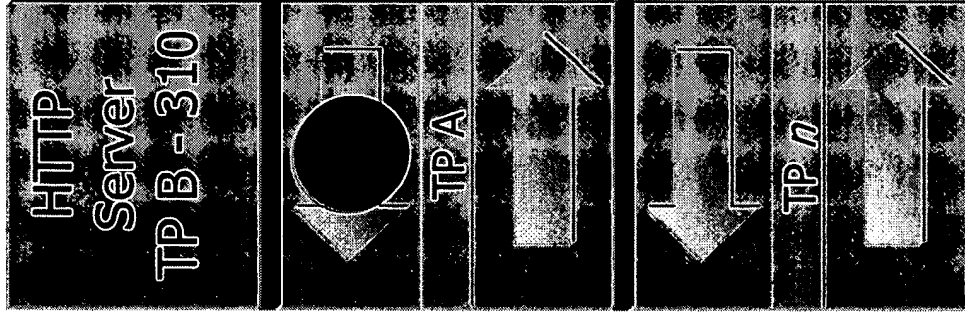
Figure 9: The Client sends the Receipt Acknowledgement to the Server



The Client sends the Receipt Acknowledgement to the Server

Figure 9

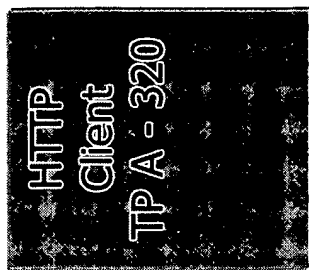
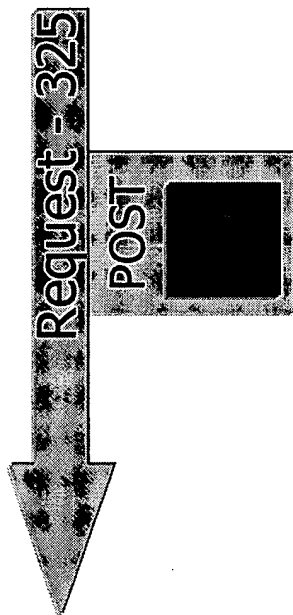
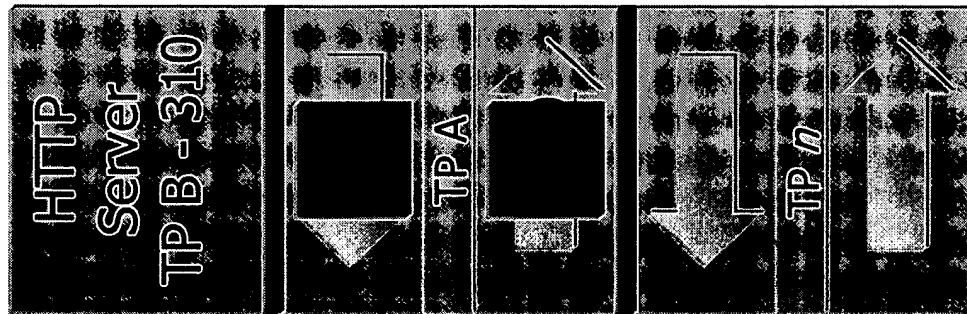
TP A - 320



The Server responds with an empty 200 OK (nothing is in the queue)

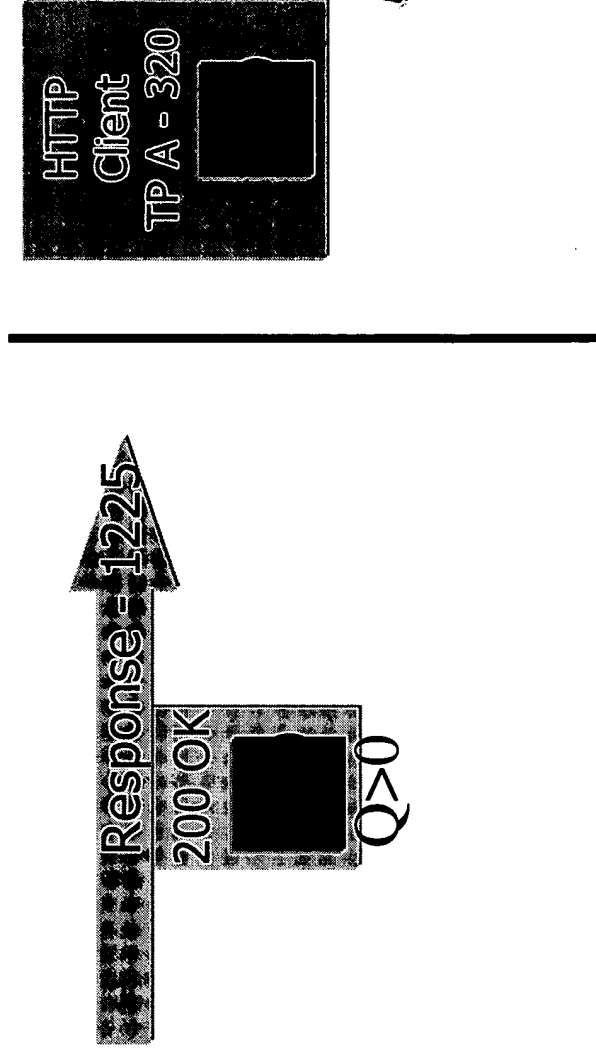
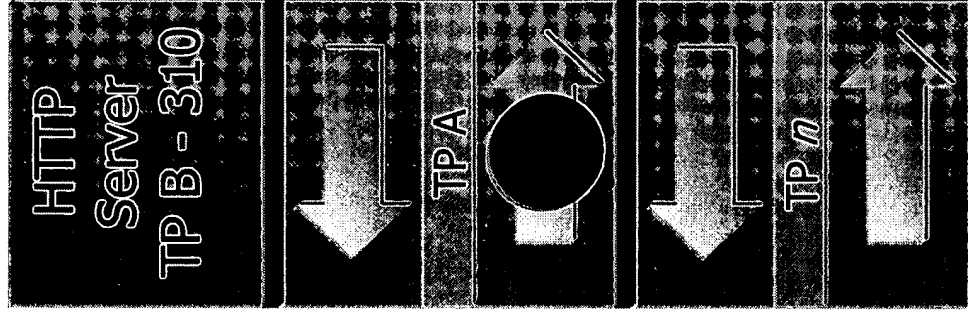
Figure 10

TP A - 320



Client sends PIP Business Message
Request as a POST to Server

Figure 11



200 OK is sent from the Server in response to Client POST indicating that the file has been received successfully. Queued message is attached and sent back to Client

Server has asynchronously processed the data and has queued a Receipt Acknowledgement

Figure 12

Figure 13

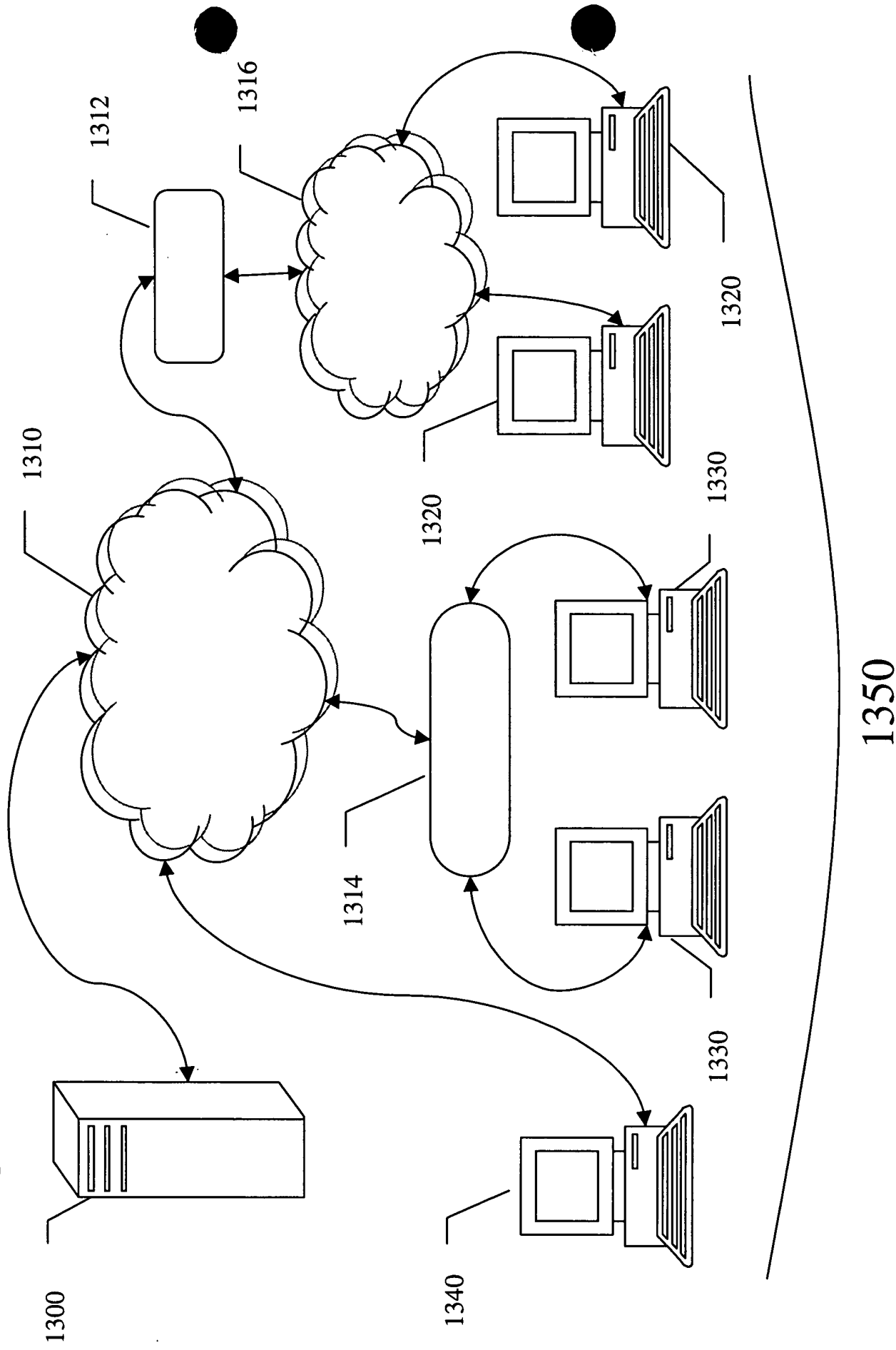


FIG. 14a is a perspective view of a computer system 1400. The computer system 1400 includes a monitor 1404, a mouse 1406, a tower unit 1402, and a keyboard 1408. The tower unit 1402 is connected to the monitor 1404, the mouse 1406, and the keyboard 1408. The tower unit 1402 also includes a floppy disk drive 1412 and a hard disk drive 1410.

Figure 14a

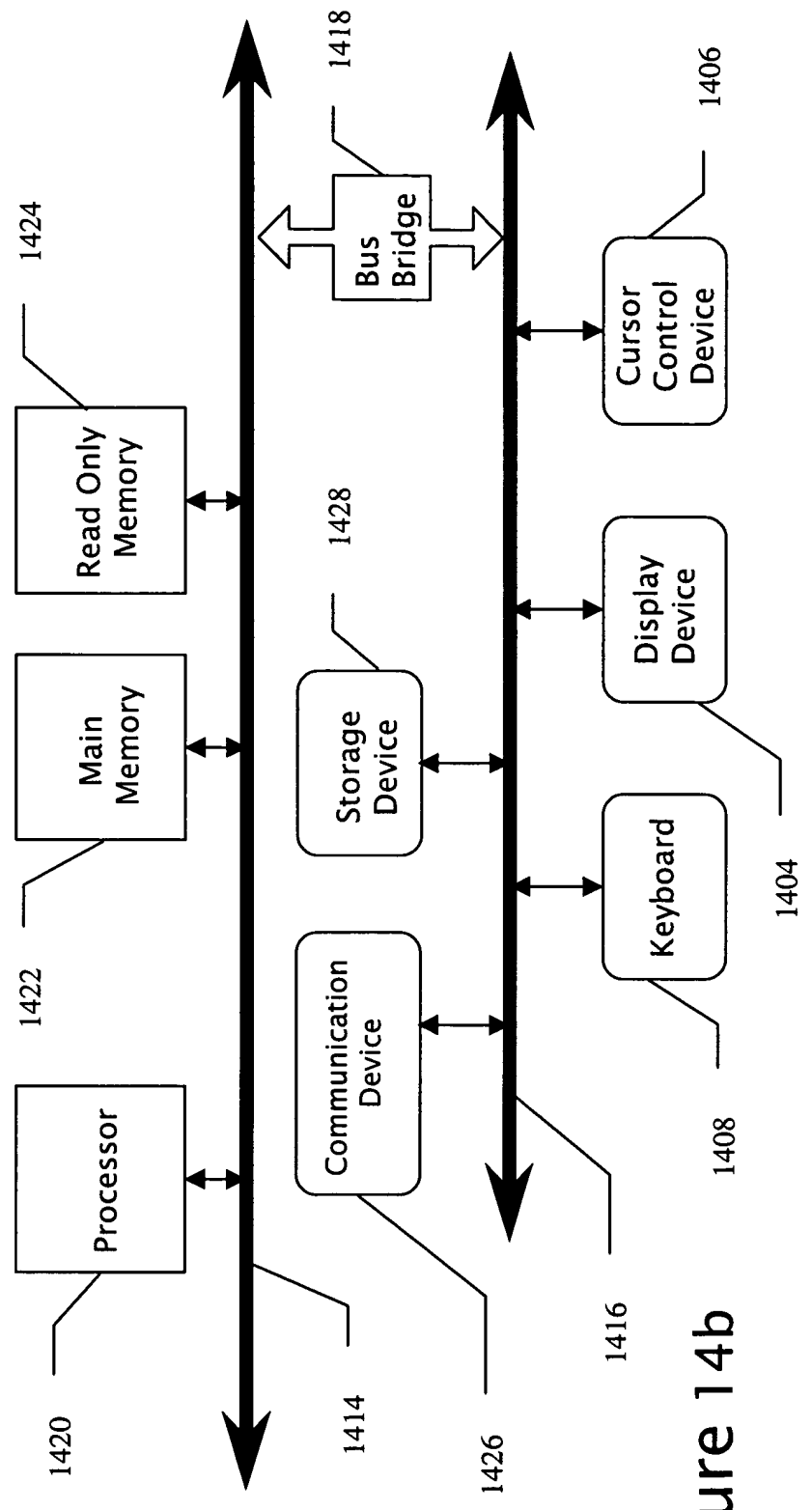
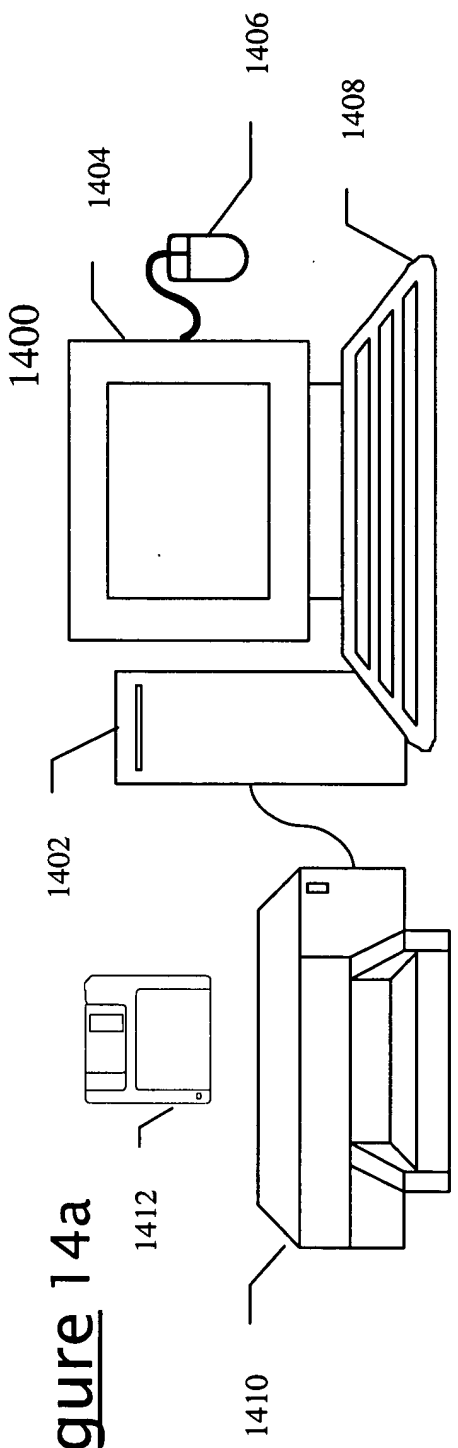


Figure 14b